

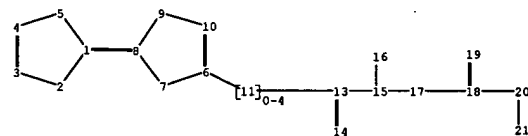
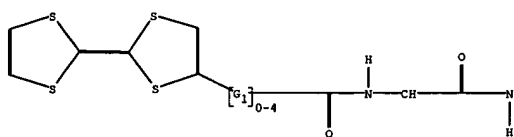
## WEST Search History

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DATE: Sunday, June 18, 2006

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	<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=NO; OP=ADJ</i>		
<input type="checkbox"/>	L10	L7 same amino acid	4
<input type="checkbox"/>	L7	tetrathiafulvalen\$	859
<input type="checkbox"/>	L6	L2 and liquid crystal\$	5
<input type="checkbox"/>	L5	L2 same liquid crystal\$	1
<input type="checkbox"/>	L2	gelling agent same amino acid	204

END OF SEARCH HISTORY



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chain nodes :
  11  13  14  15  16  17  18  19  20  21
ring nodes :
  1  2  3  4  5  6  7  8  9  10
chain bonds :
  1-8  6-11  11-13  13-14  13-15  15-16  15-17  17-18  18-19  18-20  20-21
ring bonds :
  1-2  1-5  2-3  3-4  4-5  6-7  6-10  7-8  8-9  9-10
exact/norm bonds :
  1-2  1-5  2-3  3-4  4-5  6-7  6-10  6-11  7-8  8-9  9-10  11-13  13-14
  13-15  15-17  18-19  18-20
exact bonds :
  1-8  15-16  17-18  20-21
  
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G1:C,O,S,N,P,Si

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Match level :
  1:Atom  2:Atom  3:Atom  4:Atom  5:Atom  6:Atom  7:Atom  8:Atom  9:Atom
 10:Atom 11:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS
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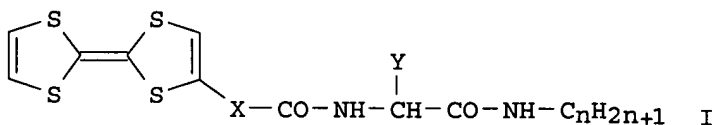
AN 2005:362101 CAPLUS  
 DN 142:439101  
 ED Entered STN: 28 Apr 2005  
 TI Gelling agents, manufacture of gelling agents, liquid crystal compositions, and charge-transfer complexes  
 IN Kato, Takashi; Kitamura, Akira; Mizoshita, Tomohiro; Tochigi, Yusuke  
 PA JSR Ltd., Japan  
 SO Jpn. Kokai Tokkyo Koho, 18 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 IC ICM C09K003-00  
 ICS C07D339-06; C09K019-12; C09K019-54  
 CC 75-11 (Crystallography and Liquid Crystals)  
 Section cross-reference(s): 28  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2005112951	A2	20050428	JP 2003-347203	20031006
PRAI	JP 2003-347203		20031006		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
JP 2005112951	ICM	C09K003-00
	ICS	C07D339-06; C09K019-12; C09K019-54
	IPCI	C09K0003-00 [ICM,7]; C07D0339-06 [ICS,7]; C07D0339-00 [ICS,7,C*]; C09K0019-12 [ICS,7]; C09K0019-10 [ICS,7,C*]; C09K0019-54 [ICS,7]
	IPCR	C07D0339-00 [I,C*]; C07D0339-06 [I,A]; C09K0003-00 [I,A]; C09K0003-00 [I,C*]; C09K0019-10 [I,C*]; C09K0019-12 [I,A]; C09K0019-54 [I,A]; C09K0019-54 [I,C*]
	FTERM	4C023/NA07; 4H027/BA01; 4H027/BA03; 4H027/BD03; 4H027/BD24; 4H027/CD04

OS MARPAT 142:439101  
 GI



AB The title gelling agents are functional amino acids compounded by tetrathiafulvalene groups (I: X = single or divalent organic bonding; Y = monovalent organic bonding; n =8-18) and are manufactured by reacting tetrathiafulvalene derivs. and amino acid derivs. in a mixed solvent containing 1-ethyl-3-(3-dimethylaminopropyl)carbodiimide salts and 4-(N,N-dimethylamino)pyridine. The charge transfer complexes as the gelling agents are applicable to gelation of fibrous mol. ensembles to new liquid crystal compns.

ST amino acid tetrathiafulvalene gelling agent transfer complex liq crystal

IT Ensembles  
 Gelation  
 Gelation agents  
 Liquid crystals  
 (tetrathiafulvalene-substd. amino acid gelling agents and manufacture of gelling agents and liquid crystal compns. and charge-transfer complexes)

IT Charge transfer complexes  
 RL: PNU (Preparation, unclassified); PRP (Properties); PREP (Preparation)

(tetrathiafulvalene-substd. amino acid gelling agents and manufacture of gelling agents and liquid crystal compns. and charge-transfer complexes)

IT 1518-16-7, Tetracyanoquinodimethane 7553-56-2, Iodine, uses 7726-95-6, Bromine, uses  
 RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)  
 (charge-transfer complex compound with; tetrathiafulvalene-substd. amino acid gelling agents and manufacture of gelling agents and liquid crystal compns. and charge-transfer complexes)

IT 850728-15-3P 850728-16-4P  
 RL: PNU (Preparation, unclassified); PRP (Properties); PREP (Preparation)  
 (gelation agent; tetrathiafulvalene-substd. amino acid gelling agents and manufacture of gelling agents and liquid crystal compns. and charge-transfer complexes)

IT 52364-72-4, 4-Heptyloxy-4'-cyanobiphenyl  
 RL: PRP (Properties)  
 (liquid crystal compound mixture; tetrathiafulvalene-substd. amino acid gelling agents and manufacture of gelling agents and liquid crystal compns. and charge-transfer complexes)

IT 52709-84-9, 4-Octyl-4'-cyanobiphenyl  
 RL: PRP (Properties)  
 (liquid crystal compound; tetrathiafulvalene-substd. amino acid gelling agents and manufacture of gelling agents and liquid crystal compns. and charge-transfer complexes)

IT 70247-25-5, 4-Decyloxy-4'-cyanobiphenyl  
 RL: PRP (Properties)  
 (tetrathiafulvalene-substd. amino acid gelling agents and manufacture of gelling agents and liquid crystal compns. and charge-transfer complexes)

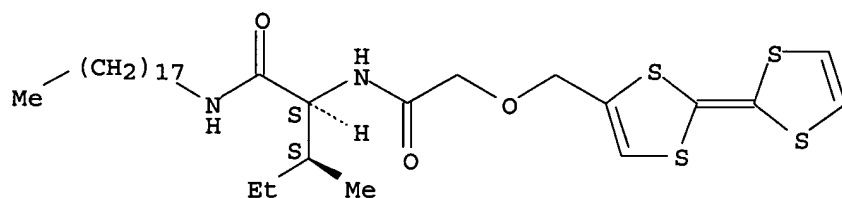
IT 63822-38-8 260247-44-7 733742-40-0  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (tetrathiafulvalene-substd. amino acid gelling agents and manufacture of gelling agents and liquid crystal compns. and charge-transfer complexes)

IT 850728-15-3P 850728-16-4P  
 RL: PNU (Preparation, unclassified); PRP (Properties); PREP (Preparation)  
 (gelation agent; tetrathiafulvalene-substd. amino acid gelling agents and manufacture of gelling agents and liquid crystal compns. and charge-transfer complexes)

RN 850728-15-3 CAPLUS

CN Pentanamide, 2-[[[2-(1,3-dithiol-2-ylidene)-1,3-dithiol-4-yl]methoxy]acetyl]amino]-3-methyl-N-octadecyl-, (2S,3S)- (9CI) (CA INDEX NAME)

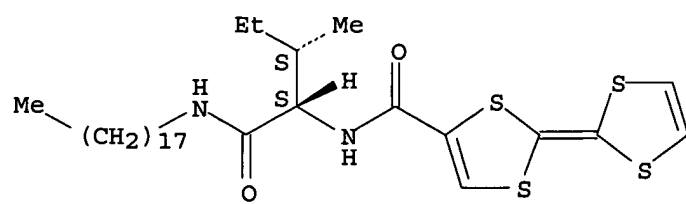
Absolute stereochemistry.



RN 850728-16-4 CAPLUS

CN 1,3-Dithiole-4-carboxamide, 2-(1,3-dithiol-2-ylidene)-N-[(1S,2S)-2-methyl-1-[(octadecylamino)carbonyl]butyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



AN 2005:1051116 CAPLUS  
 DN 144:15152  
 ED Entered STN: 02 Oct 2005  
 TI Electroactive Supramolecular Self-Assembled Fibers Comprised of Doped  
 Tetrathiafulvalene-Based Gelators  
 AU Kitamura, Tetsu; Nakaso, Suguru; Mizoshita, Norihiro; Tochigi, Yusuke;  
 Shimomura, Takeshi; Moriyama, Masaya; Ito, Kohzo; Kato, Takashi  
 CS Department of Chemistry and Biotechnology, School of Engineering,  
 University of Tokyo, Tokyo, 113-8656, Japan  
 SO Journal of the American Chemical Society (2005), 127(42), 14769-14775  
 CODEN: JACSAT; ISSN: 0002-7863  
 PB American Chemical Society  
 DT Journal  
 LA English  
 CC 76-14 (Electric Phenomena)  
 Section cross-reference(s): 73, 75  
 AB New electroactive supramol. fibers were formed by self-assembly of the  
 derivs. of tetrathiafulvalene (TTF) in liquid crystals. These derivs. are  
 designed and prepared by introducing the TTF moiety to the scaffold derived  
 from amino acids such as L-isoleucine whose derivs. function as  
 organogelators. These TTF-based gelators form stable fibrous aggregates  
 in liquid crystals. These fibers are the 1st example of hydrogen-bonded  
 1-dimensional aggregates having electroactive moieties whose elec.  
 conductivities were measured after doping. Their electronic states also  
 were characterized by spectroscopic methods. Unidirectionally aligned  
 fibers are formed in the oriented liquid crystal solvents on the rubbed  
 polyimide surface for further functionalization of the fibers.  
 ST electroactive supramol self assembled fiber doped tetrathiafulvalene  
 gelator  
 IT Electric conductors  
 (electroactive fibers; electroactive supramol. self-assembled fibers  
 comprised of doped tetrathiafulvalene-based gelators)  
 IT Aggregates  
 Atomic force microscopy  
 Electric conductivity  
 Electric current-potential relationship  
 Electronic state  
 IR spectra  
 Liquid crystals  
 Phase transition  
 Self-assembly  
 UV and visible spectra  
 (electroactive supramol. self-assembled fibers comprised of doped  
 tetrathiafulvalene-based gelators)  
 IT 73-32-5, L-Isoleucine, properties 31366-25-3, Tetrathiafulvalene  
 RL: PRP (Properties); RCT (Reactant); RACT (Reactant or reagent)  
 (electroactive supramol. self-assembled fibers comprised of doped  
 tetrathiafulvalene-based gelators)  
 IT 850728-15-3P 850728-16-4P 869965-24-2P  
 RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)  
 (electroactive supramol. self-assembled fibers comprised of doped  
 tetrathiafulvalene-based gelators)  
 IT 68128-93-8, 4-(Hydroxymethyl)tetrathiafulvalene 733742-40-0  
 869965-27-5  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (electroactive supramol. self-assembled fibers comprised of doped  
 tetrathiafulvalene-based gelators)  
 IT 40817-08-1 869965-25-3 869965-26-4  
 RL: FMU (Formation, unclassified); PRP (Properties); FORM (Formation,  
 nonpreparative)  
 (liquid crystals; electroactive supramol. self-assembled fibers comprised  
 of doped tetrathiafulvalene-based gelators)  
 RE.CNT 60 THERE ARE 60 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 RE

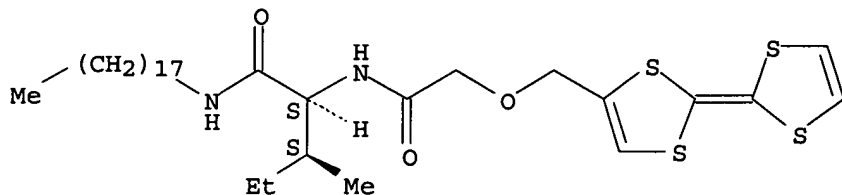
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IT 850728-15-3P 850728-16-4P 869965-24-2P

RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)  
 (electroactive supramol. self-assembled fibers comprised of doped  
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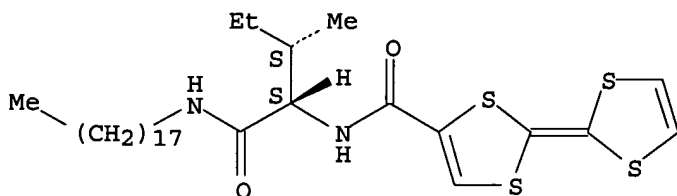
RN 850728-15-3 CAPLUS  
 CN Pentanamide, 2-[[[2-(1,3-dithiol-2-ylidene)-1,3-dithiol-4-yl]methoxy]acetyl]amino]-3-methyl-N-octadecyl-, (2S,3S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 850728-16-4 CAPLUS  
 CN 1,3-Dithiole-4-carboxamide, 2-(1,3-dithiol-2-ylidene)-N-[(1S,2S)-2-methyl-1-[(octadecylamino)carbonyl]butyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 869965-24-2 CAPLUS  
 CN Butanamide, N,N'-1,12-dodecanediylbis[2-[[[2-(1,3-dithiol-2-ylidene)-1,3-dithiol-4-yl]methoxy]acetyl]amino]-3-methyl-, (2S,2'S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

